

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 37697-0003

Applicant: Edward W. MERRILL *et al.*

Appl. No.: 09/572,324

Examiner: C. Koh

Filing Date: May 18, 2001

Art Unit: 3738

Title: RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT  
POLYETHYLENE PROSTHETIC DEVICES

**REVOCATION OF PRIOR POWERS OF ATTORNEY BY ASSIGNEE  
APPOINTMENT OF NEW POWER OF ATTORNEY BY ASSIGNEE  
CHANGE OF CORRESPONDENCE ADDRESS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The General Hospital Corporation and Massachusetts Institute of Technology are the assignees of the captioned application, which is continuation of U.S. Serial No. 08/798,638, and all continuing applications thereof, as evidenced by the Assignments recorded in the U.S. Patent and Trademark Office on June 25, 1997 at Reel 8575, Frame 0093, September 18, 1997 at Reel 8713, Frame 0659, and September 18, 1997 at Reel 8713, Frame 0710. The General Hospital Corporation and Massachusetts Institute of Technology, through its duly-delegated representative, hereby revokes all prior Powers of Attorney submitted in this application, and hereby appoints the following registered attorneys and agents of the law firm of HELLER EHRMAN WHITE & MCAULIFFE:

---

John P. Isacson	Reg. No. 33,715
Patricia D. Granados	Reg. No. 33,683
Colin G. Sandercock	Reg. No. 31,298

---

as its principal attorneys to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, to

U.S. Serial No. 09/572,324

transact all business in the United States Patent and Trademark Office connected therewith,  
and to have full power of substitution, association, and revocation, including the power to  
revoke the power of attorney of any associate attorney.

Please direct all future correspondence concerning this application to:

John P. Isacson  
HELLER EHRMAN WHITE & MCAULIFFE  
815 Connecticut Avenue, NW, Suite 200  
Washington, DC 20006-4004  
Phone: (202) 263-8900  
Fax: (202) 785-8877

**The General Hospital Corporation**

By:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title)

Executed this \_\_\_\_ day of \_\_\_\_\_, 2000.

**Massachusetts Institute of Technology**

By:

  
(Signature)

JOHN H. TURNER, JR.  
ASSOCIATE DIRECTOR  
TECHNOLOGY LICENSING OFFICE  
(Title)

Executed this 22 day of March, ~~2000~~ 2001.

1. Name of conveying party(ies):

Edward W. Merrill  
Remnath Venugopalan

name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Assignment

☐ Merger

Security Agreement

☐ Change of Name

her

in Date: 5/22/97 and 6/2/97

2. Name and address of receiving party(ies)

Name: Massachusetts Institute of Technology

Internal Address:

Street Address: 77 Massachusetts Avenue

City: Cambridge State: MA ZIP: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Patent number(s) or patent number(s):

4. If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Helen Greer

Address: 23160-33

Greer, McClennen & Fish, LLP

Address: One International Place

Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1499

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Signature of person signing:

I, Helen Greer, best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Helen Greer

Name of Person Signing

Signature

June 20, 1997

Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be processed with registered cover sheet information to:

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: May 22 1997

Edward W Merrill  
EDWARD W. MERRILL

STATE OF Massachusetts :  
COUNTY OF Middlesex :

Subscribed and sworn to before me this 22 day of May, 1997.

SEAL

Carla A. Phillips  
Notary Public  
CARLA A. PHILLIPS  
NOTARY PUBLIC  
MY COMMISSION EXPIRES MAY 13, 1997

Dated: \_\_\_\_\_

PREMNATH VENUGOPALAN

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

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Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: \_\_\_\_\_  
EDWARD W. MERRILL

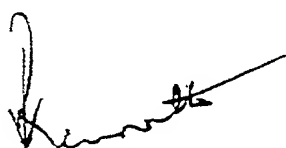
STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

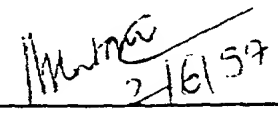
Dated: 2 JUNE 97

  
PREMNATH VENUGOPALAN  
PREMNATH V.  
1253, GOLDEN COLONY  
MUGAPPAR  
CHENNAI - 600 050  
INDIA

STATE OF TAMIL NADU, INDIA:  
COUNTY OF MADRAS:

Subscribed and sworn to before me this the 2nd day of June, 1997.

SEAL

  
\_\_\_\_\_  
Notary Public

19123\_1.WE6



**R. NATARAJAN**  
Notary & Commissioner of Oaths  
No. 14, Law Chambers,  
Club Court, Madras-600 101



1. Name of conveying party(ies): MRD 9/18/97  
William H. Harris

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address: \_\_\_\_\_

Street Address: Fruit Street

City: Boston State: MA ZIP: 02114

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Date of conveyance:

Assignment ☐ Merger

Security Agreement ☐ Change of Name

Other: \_\_\_\_\_

Effective Date: July 1, 1997

4. Patent number(s) or patent number(s):

5. If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 08/798,638

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

6. Name and address of party to whom correspondence concerning document should be mailed:

Helen Greer

Address: 23160-33

City: McClennen & Fish, LLP

Address: One International Place

City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed E

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1449

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

I, Helen Greer, best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Name of Person Signing: Helen Greer

Signature: Helen Greer

Date: Sept. 16 1997

Total number of pages including cover sheet, attachments, and document: 3

09/26/1997 01:51:10  
 08798638 6 20002 9 08798638 40.00

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

Sell, assign and transfer to The General Hospital Corporation, a Massachusetts corporation having a place of business at Fruit Street, Boston, Massachusetts 02114, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated:

7/1/97

W Harris  
WILLIAM H. HARRIS

STATE OF Massachusetts:  
COUNTY OF Suffolk:

Subscribed and sworn to before me this 1<sup>st</sup> day of July, 1997.

SEAL

Elsie M. Willant  
Notary Public

ELSIE M. WILLANT

Notary Public

My Commission Expires April 12, 2002

Dated: \_\_\_\_\_

MURALI JASTY

STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

Dated: \_\_\_\_\_

ORHUN MURATOGLU

STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

Name of conveying party(ies): William H. Harris  
Murali Jasty  
Orhun Muratoglu  
Charles R. Bragdon  
Daniel O. O'Connor

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Nature of conveyance:

Assignment

☐ Merger

Security Agreement

☐ Change of Name

Other

Execution Date: June 5, 10, 12, 1997

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address:

Street Address: Fruit Street

City: Boston State: MA ZIP: 02114

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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Name: Helen Greer

Internal Address: 23160-33

Firm: Oster, McClennen & Fish, LLP

Street Address: One International Place

City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1449

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

Statement and signature.

I, the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Helen Greer

Name of Person Signing

Helen Greer

Signature

Sept. 16 1997

4

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box 1000, Washington, DC 20540

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

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Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 6/1/97

W Harris  
WILLIAM H. HARRIS

STATE OF Massachusetts :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 6 day of June, 1997.

SEAL

Elsie M. Willant  
Notary Public  
ELsie M. WILLANT  
Notary Public  
My Commission Expires April 12, 2002

Dated: 6/10/97

Murali Jasty  
MURALI JASTY

STATE OF MASSACHUSETTS :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevrete  
Notary Public  
RICHARD J. CHEVRETTE  
Notary Public  
My Commission Expires July 3, 1998

Dated: 6/10/97

Orhan Muratoglu  
ORHAN MURATOGLU

STATE OF MASSACHUSETTS :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevrete  
Notary Public  
RICHARD J. CHEVRETTE  
Notary Public  
My Commission Expires July 3, 1998

Dated:

6/12/97

Charles R. Bragdon  
CHARLES R. BRAGDON

STATE OF

Massachusetts

COUNTY OF

Suffolk

Subscribed and sworn to before me this

12 day of JUNE,

1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE

Notary Public

My Commission Expires July 3, 1998

Dated:

6/10/97

Daniel O. O'Connor  
DANIEL O. O'CONNOR

STATE OF

MASSACHUSETTS

COUNTY OF

Suffolk

Subscribed and sworn to before me this

10 day of June,

1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE

Notary Public

My Commission Expires July 3, 1998

## DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

## RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES

the specification of which is attached hereto unless the following is checked:

☒ was filed on February 11, 1997, as United States Application No. 08/798,638 or PCT International Application No. \_\_\_\_\_, bearing Attorney Docket No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or section 365(a) of any PCT International application designating at least one country other than the United States listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign PCT International Application(s) and any priority claims under 35 U.S.C. §§119 and 365(a), (b)

(Number)	(Country-if PCT, so indicate)	(DD/MM/YY Filed)	Priority Claimed	
			[ ] YES	[ ] NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

(Application Number)	(filing date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

08/600,744 (Application No.)	Feb. 13, 1996 (filing date)	pending (status-patented, pending, abandoned)
08/726,313 (Application No.)	Oct. 2, 1996 (filing date)	pending (status-patented, pending, abandoned)

PCT International Applications designating the United States:

(PCT Appl. No.)	(U.S. Ser. No.)	(PCT filing date)	(status-patented, pending, abandoned)



I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ronald E. Cahill	Reg. No. 38,403	Christopher S. Daly	Reg. No. 37,303
John Christopher	Reg. No. 37,596	William C. Geary III	Reg. No. 31,359
Judith C. Crowley	Reg. No. 35,091	Helen A. Greer	Reg. No. 36,816
Paul D. Durkee	Reg. No. P-41,003		

Address all telephone calls to Helen Greer at telephone no. (617) 439-2781. Address all correspondence to

Helen Greer  
c/o Nutter, McClennen & Fish, LLP  
One International Place  
Boston, MA 02110-2699

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Edward W. Merrill  
Inventor's signature  
Full name of first inventor Edward W. Merrill  
Citizenship United States  
Residence 90 Somerset Street, Belmont, MA 02178  
Post Office Address 90 Somerset Street, Belmont, MA 02178

May 22 1997  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of second inventor William H. Harris  
Citizenship United States  
Residence 665 Concord Avenue, Belmont, MA 02178  
Post Office Address 665 Concord Avenue, Belmont, MA 02178

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of third inventor Murali Jasty  
Citizenship United States  
Residence 73 Chestnut Street, Weston, MA 02193  
Post Office Address 73 Chestnut Street, Weston, MA 02193

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of fourth inventor Orhun Muratoglu  
Citizenship Turkey  
Residence 3 Dana Street #8, Cambridge, MA 02138  
Post Office Address 3 Dana Street #8, Cambridge, MA 02138

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of fifth inventor Charles R. Bragdon  
Citizenship United States  
Residence 1156 Pleasant Street, Weymouth, MA 02189  
Post Office Address 1156 Pleasant Street, Weymouth, MA 02189

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of sixth inventor Daniel O. O'Connor  
Citizenship United States  
Residence 58 Steven Street, East Taunton, MA 02718  
Post Office Address 58 Steven Street, East Taunton, MA 02718

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor's signature  
Full name of seventh inventor Premnath Venugopalan  
Citizenship India  
Residence 170 Webster Avenue, Cambridge, MA 02141  
Post Office Address 170 Webster Avenue, Cambridge, MA 02141

\_\_\_\_\_  
Date

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ronald E. Cahill	Reg. No. 38,403	Christopher S. Daly	Reg. No. 37,303
John Christopher	Reg. No. 37,596	William C. Geary III	Reg. No. 31,359
Judith C. Crowley	Reg. No. 35,091	Helen A. Greer	Reg. No. 36,816
Paul D. Durkee	Reg. No. P-41,003		

Address all telephone calls to Helen Greer at telephone no. (617) 439-2781. Address all correspondence to

Helen Greer  
c/o Nutter, McClennen & Fish, LLP  
One International Place  
Boston, MA 02110-2699

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's signature  
Full name of first inventor Edward W. Merrill  
Citizenship United States  
Residence 90 Somerset Street, Belmont, MA 02178  
Post Office Address 90 Somerset Street, Belmont, MA 02178

Date

Inventor's signature  
Full name of second inventor William H. Harris  
Citizenship United States  
Residence 665 Concord Avenue, Belmont, MA 02178  
Post Office Address 665 Concord Avenue, Belmont, MA 02178

Date

Inventor's signature  
Full name of third inventor Murali Jasty  
Citizenship United States  
Residence 73 Chestnut Street, Weston, MA 02193  
Post Office Address 73 Chestnut Street, Weston, MA 02193

Date

Inventor's signature  
Full name of fourth inventor Orhun Muratoglu  
Citizenship Turkey  
Residence 3 Dana Street #8, Cambridge, MA 02138  
Post Office Address 3 Dana Street #8, Cambridge, MA 02138

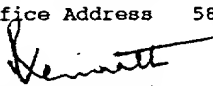
Date

Inventor's signature  
Full name of fifth inventor Charles R. Bragdon  
Citizenship United States  
Residence 1156 Pleasant Street, Weymouth, MA 02189  
Post Office Address 1156 Pleasant Street, Weymouth, MA 02189

Date

Inventor's signature  
Full name of sixth inventor Daniel O. O'Connor  
Citizenship United States  
Residence 58 Steven Street, East Taunton, MA 02718  
Post Office Address 58 Steven Street, East Taunton, MA 02718

Date

  
Inventor's signature  
Full name of seventh inventor Premnath Venugopalan  
Citizenship India  
Residence 1253 Golden Colony, Mugappair, Chennai (Madras), 600 050 India  
Post Office Address 1253 Golden Colony, Mugappair, Chennai (Madras), 600 050 India

Date

2 JUNE 97

I hereby appoint the following orney(s) and/or agent(s) to prosecute s application and to transact all business in the Patent and Trademark Office connected therewith:

Ronald E. Cahill	Reg. No. 38,403	Christopher S. Daly	Reg. No. 37,303
John Christopher	Reg. No. 37,596	William C. Geary III	Reg. No. 31,359
Judith C. Crowley	Reg. No. 35,091	Helen A. Greer	Reg. No. 36,816
Paul D. Durkee	Reg. No. P-41,003		

Address all telephone calls to Helen Greer at telephone no. (617) 439-2781. Address all correspondence to

Helen Greer  
c/o Nutter, McClennen & Fish, LLP  
One International Place  
Boston, MA 02110-2699

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's signature  
Full name of first inventor Edward W. Merrill  
Citizenship United States  
Residence 90 Somerset Street, Belmont, MA 02178  
Post Office Address 90 Somerset Street, Belmont, MA 02178

Date

*W. Merrill*

6/5/97  
Date

Inventor's signature  
Full name of second inventor William H. Harris  
Citizenship United States  
Residence 665 Concord Avenue, Belmont, MA 02178  
Post Office Address 665 Concord Avenue, Belmont, MA 02178

*W. Harris*

6/10/97  
Date

Inventor's signature  
Full name of third inventor Murali Jasty  
Citizenship United States  
Residence 73 Chestnut Street, Weston, MA 02193  
Post Office Address 73 Chestnut Street, Weston, MA 02193

*M. Jasty*

6/10/97  
Date

Inventor's signature  
Full name of fourth inventor Orhun Muratoglu  
Citizenship Turkey  
Residence 3 Dana Street #8, Cambridge, MA 02138  
Post Office Address 3 Dana Street #8, Cambridge, MA 02138

*O. Muratoglu*

6/12/97  
Date

Inventor's signature  
Full name of fifth inventor Charles R. Bragdon  
Citizenship United States  
Residence 1156 Pleasant Street, Weymouth, MA 02189  
Post Office Address 1156 Pleasant Street, Weymouth, MA 02189

*C. Bragdon*

6/10/97  
Date

Inventor's signature  
Full name of sixth inventor Daniel O. O'Connor  
Citizenship United States  
Residence 58 Steven Street, East Taunton, MA 02718  
Post Office Address 58 Steven Street, East Taunton, MA 02718

*D. O'Connor*

Date

Inventor's signature  
Full name of seventh inventor Premnath Venugopalan  
Citizenship India  
Residence 170 Webster Avenue, Cambridge, MA 02141  
Post Office Address 170 Webster Avenue, Cambridge, MA 02141

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 37697-0003

Applicant: Edward W. MERRILL *et al.*

Appl. No.: 09/572,324

Examiner: C. Koh

Filing Date: May 18, 2001

Art Unit: 3738

Title: RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT  
POLYETHYLENE PROSTHETIC DEVICES

**REVOCATION OF PRIOR POWERS OF ATTORNEY BY ASSIGNEE  
APPOINTMENT OF NEW POWER OF ATTORNEY BY ASSIGNEE  
CHANGE OF CORRESPONDENCE ADDRESS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The General Hospital Corporation and Massachusetts Institute of Technology are the assignees of the captioned application, which is continuation of U.S. Serial No. 08/798,638, and all continuing applications thereof, as evidenced by the Assignments recorded in the U.S. Patent and Trademark Office on June 25, 1997 at Reel 8575, Frame 0093, September 18, 1997 at Reel 8713, Frame 0659, and September 18, 1997 at Reel 8713, Frame 0710. The General Hospital Corporation and Massachusetts Institute of Technology, through its duly-delegated representative, hereby revokes all prior Powers of Attorney submitted in this application, and hereby appoints the following registered attorneys and agents of the law firm of HELLER EHRMAN WHITE & MCAULIFFE:

---

John P. Isacson	Reg. No. 33,715
Patricia D. Granados	Reg. No. 33,683
Colin G. Sandercock	Reg. No. 31,298

---

as its principal attorneys to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, to

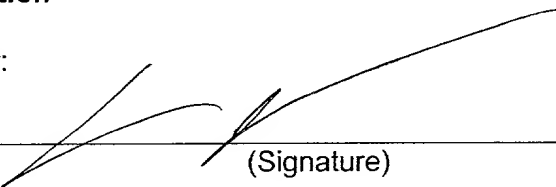
transact all business in the United States Patent and Trademark Office connected therewith, and to have full power of substitution, association, and revocation, including the power to revoke the power of attorney of any associate attorney.

Please direct all future correspondence concerning this application to:

John P. Isacson  
HELLER EHRMAN WHITE & MCAULIFFE  
815 Connecticut Avenue, NW, Suite 200  
Washington, DC 20006-4004  
Phone: (202) 263-8900  
Fax: (202) 785-8877

**The General Hospital Corporation**

By:

  
\_\_\_\_\_  
(Signature)

**DAVID GLASS, Ph.D.**

**ASSOCIATE DIRECTOR** (Printed Name)

**OFFICE OF CORPORATE SPONSORED RESEARCH AND LICENSING**

\_\_\_\_\_  
(Title)

Executed this 22 day of March, 2001.

**Massachusetts Institute of Technology**

By:

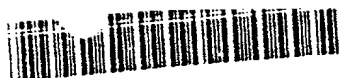
\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title)

Executed this \_\_\_\_ day of \_\_\_\_\_, 2000.

To the Honorable Commissioner of F



100449665

JUN 25 1997

RECEIPT AS

attached original documents or copy thereof.

ne of conveying party(ies):

Edward W. Merrill  
Premnath Venugopalan

al name(s) of conveying party(ies) attached? ☐ Yes ☒ No

ure of conveyance:

Assignment ☐ Merger

Security Agreement ☐ Change of Name

Other \_\_\_\_\_

ion Date: 5/22/97 and 6/2/97

2. Name and address of receiving party(ies)

Name: Massachusetts Institute of Technology

Internal Address: \_\_\_\_\_

Street Address: 77 Massachusetts Avenue

City: Cambridge State: MA ZIP: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

lication number(s) or patent number(s):

is document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

ie and address of party to whom correspondence  
cerning document should be mailed:

ie: Helen Greer

nal Address: 23160-33

tter, McClennen & Fish, LLP

et Address: One International Place

Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1499

(Attach duplicate copy of this page if paying by deposit account)

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iment and signature.

ie best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Helen Greer

Name of Person Signing

*Helen Greer*  
Signature

June 20, 1997

Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

00001239 08798638 40.00 DP  
JUN 23 1997  
1111  
1853  
11

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.



Request the Honorable Commissioner of Patents and Trademarks to  
issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage,  
license or other agreement affecting the rights and property  
herein conveyed has been made to others by us, and that full  
right to convey the same as herein expressed is possessed by us.

Dated: May 22 1997

Edward W Merrill  
EDWARD W. MERRILL

STATE OF Massachusetts :  
COUNTY OF Middlesex :

Subscribed and sworn to before me this 22 day of May,  
1997.

SEAL

Carol A. Phillips  
Notary Public  
CAROL A. PHILLIPS  
NOTARY PUBLIC  
MY COMMISSION EXPIRES MAY 23, 1997

Dated: \_\_\_\_\_

\_\_\_\_\_  
PREMNATH VENUGOPALAN

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
1997.

SEAL

\_\_\_\_\_  
Notary Public

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: \_\_\_\_\_

EDWARD W. MERRILL

STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

Notary Public

Dated: 2 JUNE 97

PREMNATH VENUGOPALAN

PREMNATH V.  
1253, GOLDEN COLONY  
MUGAPPAR  
CHENNAI - 600 050  
INDIA

STATE OF TAMIL NADU, INDIA :  
COUNTY OF MADRAS :

Subscribed and sworn to before me this the 2<sup>nd</sup> day of June, 1997.

SEAL

Notary Public

319123\_1.WP6



R. NATARAJAN  
Notary & Commissioner of Oaths  
No. 14, Law Chambers,  
Madras-600 101

To the Honorable Commissioner of Patents and Trademarks, Please return the attached original and three copies of this document.

Name of conveying party(ies): MRD 9/18/97  
 William H. Harris

Original name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Nature of conveyance:

Assignment ☐ Merger

Security Agreement ☐ Change of Name

Other \_\_\_\_\_

Execution Date: July 1, 1997

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address: \_\_\_\_\_

Street Address: Fruit Street

City: Boston State: MA ZIP: 02114

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

Name and address of party to whom correspondence concerning document should be mailed:

Name: Helen Greer

Internal Address: 23160-33

Futter, McClennen & Fish, LLP

Street Address: One International Place

City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed E

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1449

(Attach duplicate copy of this page if paying by deposit account)

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Statement and signature.

I, the undersigned, declare under oath that to the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Helen Greer

Name of Person Signing

Helen Greer  
 Signature

Sept. 16, 1997

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20540

09/28/1997 08:56:38 408.00  
 01 FEB 1998

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

Sell, assign and transfer to The General Hospital Corporation, a Massachusetts corporation having a place of business at Fruit Street, Boston, Massachusetts 02114, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 7/1/97

W Harris  
WILLIAM H. HARRIS

STATE OF Massachusetts :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 14 day of July, 1997.

SEAL

Elsie M. Willant  
Notary Public

ELSIE M. WILLANT

Notary Public

My Commission Expires April 12, 2001

Dated: \_\_\_\_\_

MURALI JASTY

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

Subscribed and sworn to before me ths \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

Dated: \_\_\_\_\_

ORHUN MURATOGLU

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

Subscribed and sworn to before me ths \_\_\_\_\_ day of \_\_\_\_\_, 1997.

SEAL

\_\_\_\_\_  
Notary Public

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents and copy them.

RECEIVED

Name of conveying party(ies): William H. Harris  
Murali Jasty  
Orhun Muratoglu  
Charles R. Bragdon  
Daniel O. O'Connor

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: June 5, 10, 12, 1997

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address: \_\_\_\_\_

Street Address: Fruit Street

City: Boston State: MA ZIP: 02114

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

Name and address of party to whom correspondence concerning document should be mailed:

Name: Helen Greer

Internal Address: 23160-33

Nutter, McClennen & Fish, LLP

Street Address: One International Place

City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1449

(Attach duplicate copy of this page if paying by deposit account)

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Statement and signature.

I, the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Helen Greer

Name of Person Signing

*Helen Greer*  
Signature

Sept. 16 1997

4

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box 1000, Washington, DC 20540

00001246 08798638  
09/26/1997  
01 FC1588

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

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Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated:

6/11/97

W Harris  
WILLIAM H. HARRIS

STATE OF

Massachusetts

COUNTY OF

Suffolk

Subscribed and sworn to before me this 6 day of June, 1997.

SEAL

Elsie M. Willant  
Notary Public

ELSIE M. WILLANT

Notary Public

My Commission Expires April 12, 2002

Dated:

6/10/97

Murali Jasty  
MURALI JASTY

STATE OF

MASSACHUSETTS

COUNTY OF

Suffolk

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE

Notary Public

My Commission Expires July 3, 1998

Dated:

6/10/97

Orkun Muratoglu  
ORKUN MURATOGLU

STATE OF

MASSACHUSETTS

COUNTY OF

Suffolk

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE

Notary Public

My Commission Expires July 3, 1998

Dated: 6/12/97

Charles R. Bragdon  
CHARLES R. BRAGDON

STATE OF Massachusetts :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 12 day of JUNE, 1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE  
Notary Public

My Commission Expires July 2, 1998

Dated: 6/10/97

Daniel O. O'Connor  
DANIEL O. O'CONNOR

STATE OF MASSACHUSETTS :  
COUNTY OF Suffolk :

Subscribed and sworn to before me this 10 day of June, 1997.

SEAL

Richard J. Chevette  
Notary Public

RICHARD J. CHEVRETTE  
Notary Public  
My Commission Expires July 3, 1998